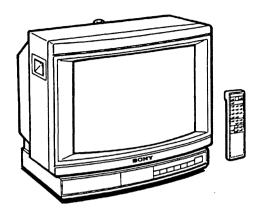
1.53 RV-537C

SERVICE MANUAL

OIRT Model

Chassis No. SCC-D26C-A



GP-1A CHASSIS

Note: The service manual for RM-687C has been issued separately.

MODELS OF TH	E SAME SERIES
KV-1984MT	KV-1434M3
KV-2184MT	KV-1484MT
KV-2134M3	

SPECIFICATIONS

Television system Color system M, B/G, I, D/K

PAL, SECAM, NTSC_{3.58}

NTSC_{4.43}

Channel coverage

Television system	M	B/G	ı	D/K
Low VHF band	A2 - A6	E2 - E4	-	R1 - R5
High VHF band	A7 - A13	E5 - E12	-	R6 - R12
UHF	A14 - A79	E21 ~ E69	B21 - B68	R21 - R60

Input

Weight

Power requirements

Power consumption

Dimensions (w/h/d)

Accessories suppild

VIDEO IN/AUDIO IN jacks:

phono jacks

Video: 1Vp-p.75 ohms

Audio: 500mVrms, high

impedance

110-240VAC,50/60Hz

85W

Approx.472 \times 439 \times 462mm

 $(185/8 \times 171/4 \times 181/4 \text{ inches})$

Approx.19kg(41lb)

RM-687C Remote commander(1)

R6(sizeAA)batteries(2)

VHF telescopic dipole antenna(1)

Antenna connector(300-750hm

matching transformer is built in.)(1)

AC power cord plug adaptor(1)

Design and specifications are subject to change without notice.

Picture tube

Antenna

Trinitron tube

Approx.49cm (19 inches)

(Approx.46cm picture

measured diagonally)

75-ohm standard coaxial socket

socket Approx.9×5cm

Speaker Audio output

2W



TRINITRON®COLOR TV SONY®

TABLE OF CONTENTS

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4-1.	CUIT ADJUSTMENTS A Board Adjustments	··· 12 ··· 13			

WARNING !!

AN ISOLATION TRANSFORMER SHOULD BE USED DURING ANY SERVICE TO AVOID POSSIBLE SHOCK HAZARD, BECAUSE OF LIVE CHASSIS.
THE CHASSIS OF THIS RECEIVER IS DIRECTLY CONNECTED TO THE AC POWER LINE.

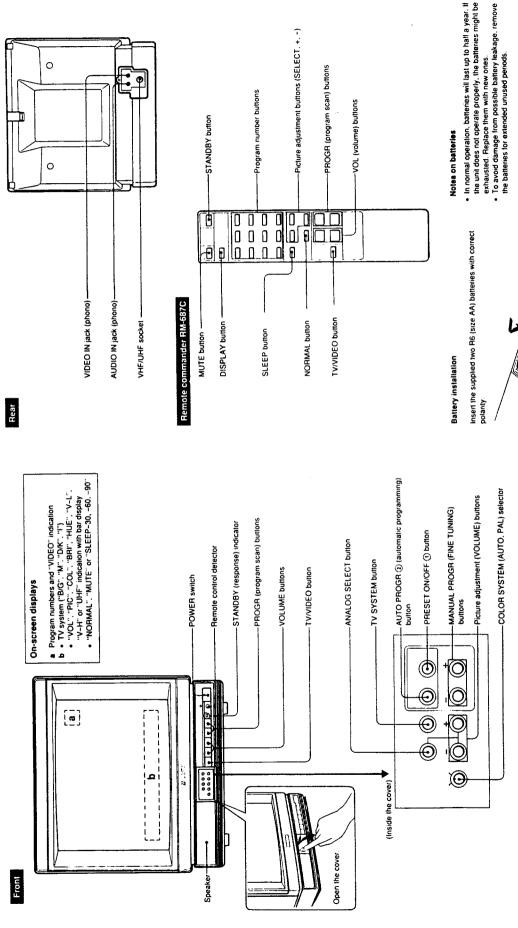
SAFETY-RELATED COMPONENT WARNING!

COMPONENTS IDENTIFIED BY SHADING AND MARK

NON THE SCHEMATIC DIAGRAMS, EXPLODED
VIEWS AND IN THE PARTS LIST ARE CRITICAL TO
SAFE OPERATION. REPLACE THESE COMPONENTS
WITH SONY PARTS WHOSE PART NUMBERS APPEAR
AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS
PUBLISHED BY SONY.

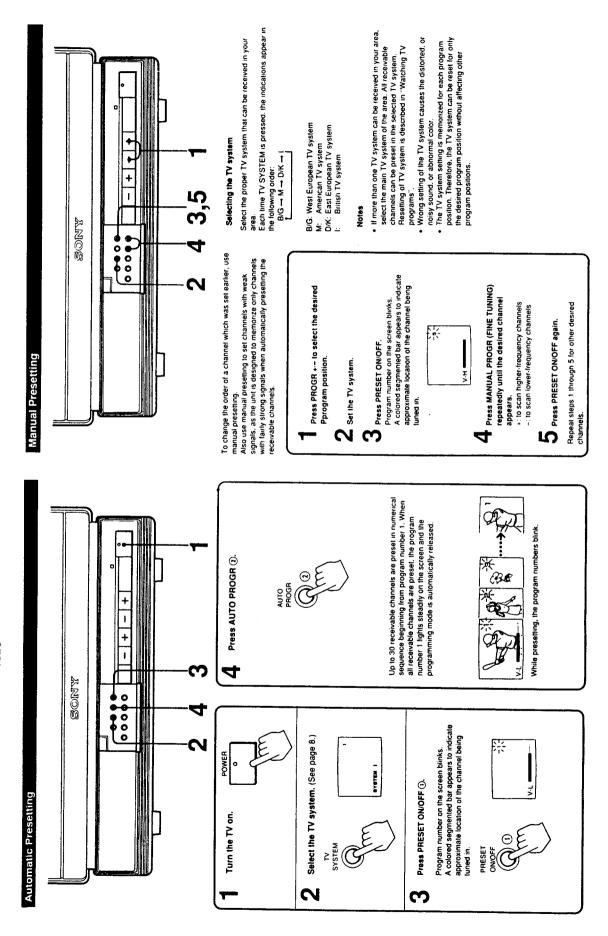
SECTION 1 GENERAL

1-1. PARTS IDENTIFICATION



- In normal operation, batteries will last up to half a year. If the unit does not operate properly, the batteries might be

1-2. PRESETTING THE RECEIVABLE CHANNELS



SONY

Skipping Unused Program Positions

After presetting channels, unused or undestred program positions can be skipped.

Restoring the skipped channel

2 Press PRESET ON/OFF. Turn the TV on.

Select the position to be restored using the program number button on the commander.

Program number on the screen blinks.
A colored segmented bar appears to indicate approximate location of the channel being tuned in.

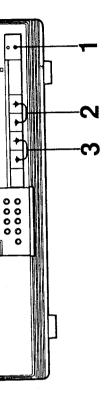
Otherwise, perform automatic presetting and reset all channels.

Perform steps 2 through 5 in "Manual

presetting".

3 Press PROGR to select the position to be 4 Press NORMAL on the commander.

5 press preset on/off.

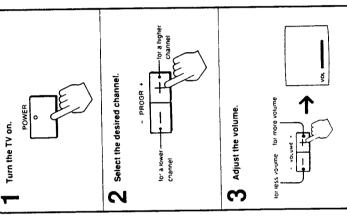


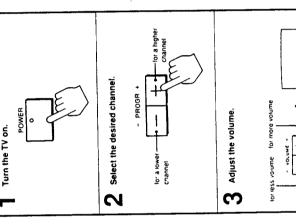
_			
- /	To turn off the TV for a short period of time	Press STANDBY.	١
	To turn on the TV from	Press a program	Press PROGR + or
	and to the second	PROGR buttons	- button.
	To cut off the power completely	1	Press POWER
	To keep the channel display (program number and "VIDEO"	Press DISPLAY.	1
	indication) on the screen		
	To turn off the program number display	Press DISPLAY.	ı
	To display the TV system indication	Press DISPLAY.	Press TV SYSTEM
_			

2

Commander

The STANDBY (response) indicator blinks when the button on the TV or on the commander is pressed. It lights steadily when the TV is turned off with the STANDBY button on the commander.



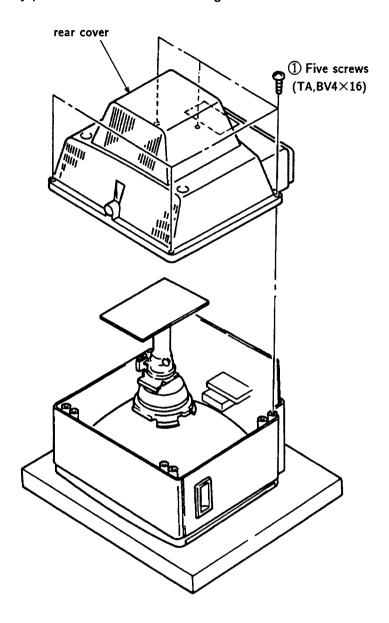


Repeat steps 3 and 4 for other positions to be skipped.

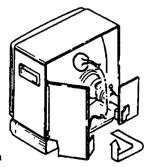
SECTION 2 DISASSEMBLY

2-1. REAR COVER REMOVAL

Note: Follow the disassembly procedure in the numerical over givem.



SERVICE POSITION FOR A BOARD

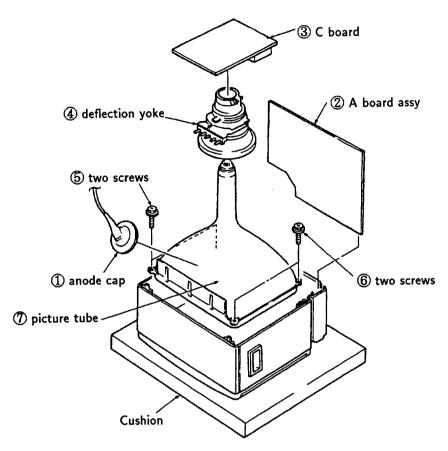


CAUTION:

Do not place the control volumes and switches down to the working bench. It is fragile.

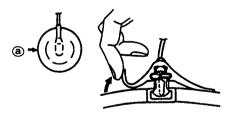
A board
Pull out A block assy
to the direction shown
by the arrow.

2-2. PICTURE TUBE REMOVAL

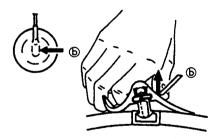


· REMOVAL OF ANODE-CAP

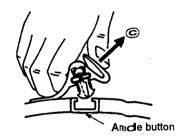
REMOVING PROCEDURES



① Turn up one side of the rubber cap in the direction indicated by the arrow ②.



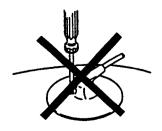
② Using a thumb pull up the rubber cap firmly in the direction indicated by the arrow ⑤.

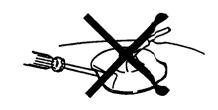


③ When one side of the rubber cap is separated from the anode button, the anode-cap can be removed by turning up the rubber cap and pulling up it in the direction of the arrow ⑥.

• HOW TO HANDLE AN ANODE-CAP

- ① Don't hurt the surface of anode-caps with sharp shaped material!
- ② Don't press the rubber hardly not to hurt inside of anode-caps!
 - A metal fitting called as shatter-hook terminal is built in the rubber.
- ③ Don't turn the foot of rubber over hardly! The shatter-hook terminal will stick out or hurt the rubber.





SECTION 3 **SET-UP ADJUSTMENTS**

- The following adjustments should be made when a complete realignment is required or a new picture tube is installed.
- These adjustments should be performed with rated power supply voltage unless otherwise noted.

The contros and switch should be set as follows unless otherwise noted:

PICTURE controlnormal

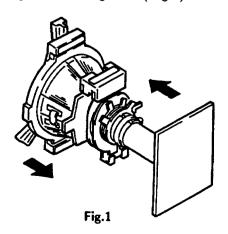
BRIGHTNESS control ···· normal

Preparation:

- Feed in the white pattern signal.
- Before starting, degauss the entire screen.

3-1. BEAM LANDING

- 1. Input a raster signal with the pattern generator.
- 2. Loosen the deflection yoke mounting screw, and set the purity control to the center as shown in Fig.2
- 3. Turn the raster signal of the pattern generator to green.
- 4. Move the deflection yoke backward, and adjust with the purity control so that green is in the center and red and blue are at the sides evenly. (Fig.3)
- 5. Move the deflection yoke forward, and adjust so that the entire screen becomes green. (Fig.1)
- 6. Switch over the raster signal to red and blue and confirm the condition.
- 7. When the position of the deflection yoke is determined, tighten it with the deflection yoke mounting screw.
- 8. When landing at the corner is not right, adjust by using the disk magnets. (Fig.4)



Perform the adjustments in order as follows:

- 1. Beam Landing
- 2. Convergence
- 3. Focus
- 4. White Balance

Note: Test Equipment Required.

- 1. Color bar Pattern Generator
- 2. Degausser
- 3. DC Power Supply
- 4. Digital multimeter

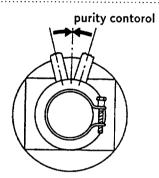


Fig.2

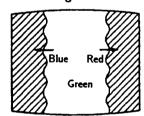
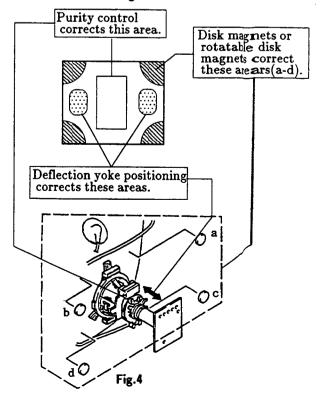


Fig.3

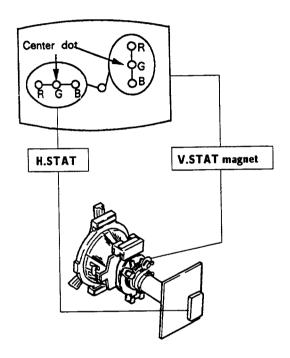


3-2. CONVERGENCE

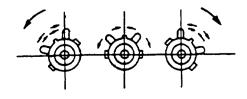
Preparation:

- Before startin, perform FOCUS, H.SIZE, V.LIN and V.SIZE adjustments.
- Set BRIGHTNESS control to minimum.
- Feed in dot pattern.

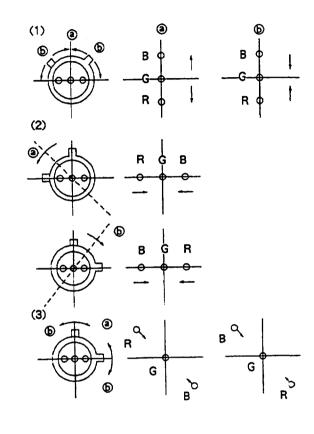
(1) Horizontal and Vertical Static Convergence



- 1. Adjust H.STAT VR to converge red, green and blue dots the in center of the screen. (Horizontal movement)
- 2. Adjust V. STAT magnet to converge red, green and blue dots in the center of the screen. (Vertical movement)
- 3. If the red, green and blue dots do not converge on the center of screen with H.STAT VR, perform horizon-tal convergence adjustment using H.STAT VR and V.STAT magnet as shown below. (In this case, H.STAT VR and V.STAT magnet effect each other.)
- Tilt the V.STAT magnet and adjust static convergence to open or close the V.STAT magnet.



4. When the V.STAT magnet is moved in the direction of arrow (a) and (b), red, green and blue dots move as shown below.

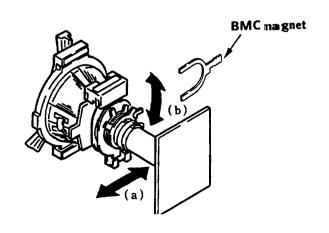


If the blue dot does not converge with red and green dots, perform following steps.

Move BMC magnet (a) to correct insufficient H.static convergence.

Rotate BMC magnet (b) to correct insufficient V.static convergence.

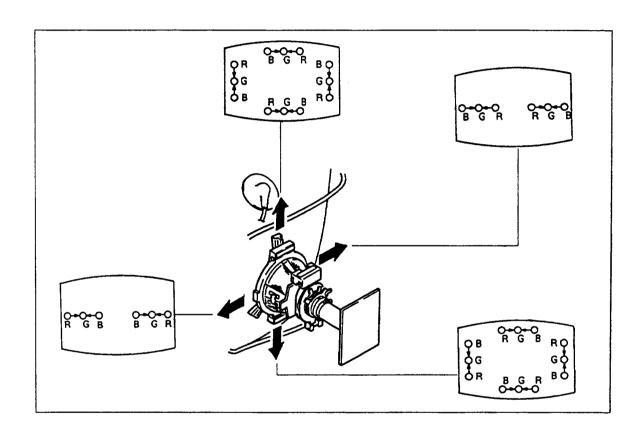
In either case, repeat Beam Landing Adjustment.



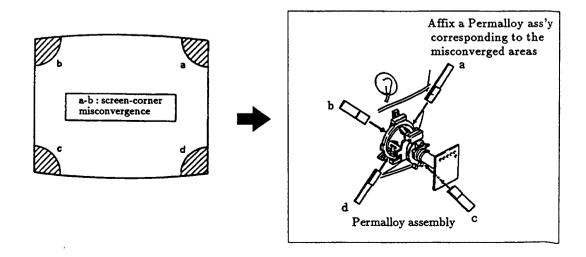
(2) Dynamic Convergence Adjustment Preparation:

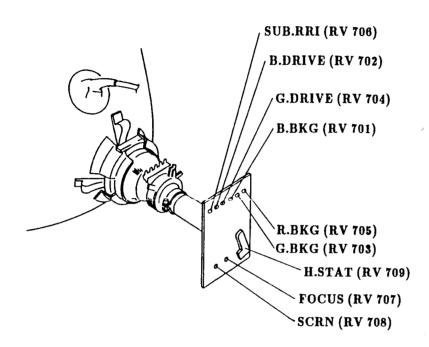
- Before starting perform Horizontal and Vertical static convergence Adjustment.
- 1. Slightly loosen deflection yoke screw.
- 2. Remove deflection yoke spacers.

- 3. Move the deflection yoke for best convergence as shown below.
- 4. Tighten the deflection yoke screw.
- 5. Install the deflection yoke spacers.



(3) Screen-corner Convergence





3-3. FOCUS

Adjust FOCUS control for best picture.

3-4. SCREEN(G 2) and WHITE BALANCE [SCREEN(G2)]

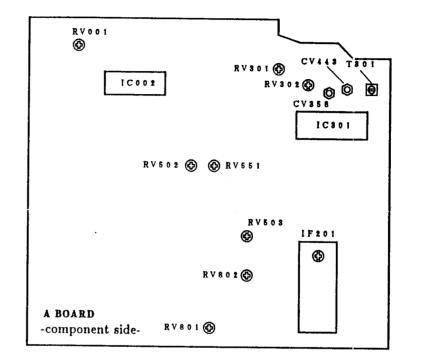
- 1. Input a dots pattarn.
- 2. Set the PIC,BRT controls at minimum and COLOR control at normal.
- 3. Confirm the BKG voltage is less than 165 Vdc when turning RV 701 (R.BKG), RV 703 (G.BKG) and RV 705 (B.BKG).
- 4. Note the color when becomes visible first when turning RV708 (SCRN).

[WHITE BALANCE(Cut off)]

- 1. Input a collor-bar signl.
- 2. Set the PIC control to minimum and set the BRT control at normal.
- Turn RV 704 (B.DRIVE) and RV 702 (G.DRIVE) fully clockwise.
- 4. Set RV701 (R.BKG), RV703 (G.BKG) and RV705 (B.BKG) to minimum.
- 5. Turn RV 709 (SUB BRT) slowly to obtain a faintly visible blue stripe.
- 6. Switch over all white signal.
- 7. Adjust BKG controls for best white balance.
- 8. Set the PICTURE control to maximum. Observe the screen and adjust the DRIVE controls for best white balance.
- 9. Repeat steps 7 and 8.

SECTION 4 CIRCUIT ADJUSTMENTS

4-1. A BOARD ADJUSTMENTS



IF201 (RF AGC)
CV358 (APC.NTSC)
CV443 (APC.PAL)
RV001 (CH DISPLAY)
RV301 (DELAY)
RV302 (PHASE)
RV502 (V.LIN)
RV503 (V.SIZE)
RV561 (V.CENT)
RV601 (H.CENT)
RV802 (H.SIZE)
T301 (DAT)LINE CRAWL

RF AGC ADJUSTMENT (IF201)

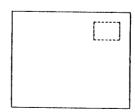
- 1. Receive a strong off-air signals.
- 2. Adjust RF AGC VR control so that snow noise and cross-modulation just disappear from the picture.

CHANNEL DISPLAY POSITION ADJUSTMENT

1. Set PIC control to maximum.

(RV001)

2. Adjust RV001 so that the channel display should be positioned at up-right on the screen.



A · P · C ADJUSTMENT (CV443) (PAL)

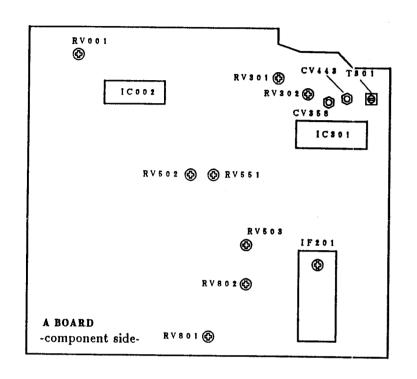
- 1. Short circuit between pin (4) and pin (6) of IC301 with jumper.
- 2. Input the PAL color-bar signal.
- 3. Set the PIC, COL, and BRT controls to normal.
- 4. Adjust CV443 for suitable color intensity.
- 5. Remove a jumper.

A · P · C ADJUSTMENT (CV358) (NTSC)

- 1. Short circuit between pin (4) and pin (6) of IC301 with a jumper.
- 2. Input NTSC 3.58 color-bar signal.
- 3. Set the PIC, COL and BRT controls to normal.
- 4. Adjust CV358 for suitable color intensity.
- 5. Remove the jumper.

SECTION 4 CIRCUIT ADJUSTMENTS

4-1. A BOARD ADJUSTMENTS



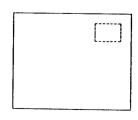
IF201 (RF AGC)
CV\$58 (APC.NTSC)
CV443 (APC.PAL)
RV001 (CH DISPLAY)
RV\$01 (DELAY)
RV\$02 (PHASE)
RV502 (V.LIN)
RV503 (V.SIZE)
RV551 (V.CENT)
RV801 (H.CENT)
RV802 (H.SIZE)
T\$01 (DAT)LINE CRAWL

RF AGC ADJUSTMENT (IF201)

- 1. Receive a strong off-air signals.
- 2. Adjust RF AGC VR control so that snow noise and cross-modulation just disappear from the picture.

CHANNEL DISPLAY POSITION ADJUSTMENT (RV001)

- 1. Set PIC control to maximum.
- 2. Adjust RV001 so that the channel display should be positioned at up-right on the screen.



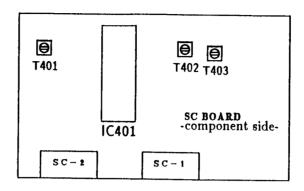
A · P · C ADJUSTMENT (CV443) (PAL)

- 1. Short circuit between pin (4) and pin (4) of IC301 with jumper.
- 2. Input the PAL color-bar signal.
- 3. Set the PIC, COL, and BRT controls to normal.
- 4. Adjust CV443 for suitable color intensity.
- 5. Remove a jumper.

A · P · C ADJUSTMENT (CV358) (NTSC)

- 1. Short circuit between pin (4) and pin (6) of IC301 with a jumper.
- 2. Input NTSC 3.58 color-bar signal.
- 3. Set the PIC, COL and BRT controls to normal.
- 4. Adjust CV358 for suitable color intensity.
- 5. Remove the jumper.

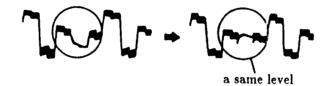
4-2.SC BOARD ADJUSTMENTS



T401 (DISCRI)
T402 (DISCRI)
T403 (BELL FILTER)

DISCRI ADJUSTMENT (T401,T402)

- 1.Input the SECAM color-bar signal.
- 2.Connect the dual-trace oscilloscope to the pin (B-Y) and pin (B-Y) of SC-1 connector.
- 3. Adjust T402 (R-Y) and T401 (B-Y) as shown the following figure.



BELL FILTER ADJUSTMENT (T403)

- 1. Input the SECAM color-bar signal.
- 2. Connect the oscilloscope to pin (3) (R-Y) of SC-1 connector.
- 3. Adjust T403 as shown the following figure.



ANTI PAL, LINE O (RV301,RV302,T

• ANTI PAL AD

1.Input the PAL

2.Set the PIC,CO

3.Connect the osc

4.Adjust RV301 obtain the way



• LINE CRAWLI

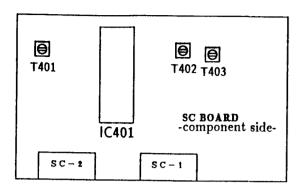
1.Input the PAL

2.Set the PIC,CO

3. Connect the osc

4.Adjust T301 for

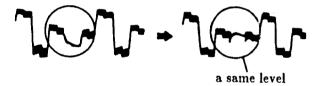
4-2.SC BOARD ADJUSTMENTS



T401 (DISCRI)
T402 (DISCRI)
T403 (BELL FILTER)

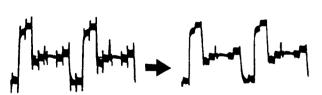
DISCRI ADJUSTMENT (T401,T402)

- 1.Input the SECAM color-bar signal.
- 2. Connect the dual-trace oscilloscope to the pin (B-Y) and pin (B-Y) of SC-1 connector.
- 3. Adjust T402 (R-Y) and T401 (B-Y) as shown the following figure.



BELL FILTER ADJUSTMENT (T403)

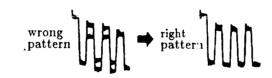
- 1. Input the SECAM color-bar signal.
- 2. Connect the oscilloscope to pin ③ (R-Y) of SC-1 connector.
- 3.Adjust T403 as shown the following figure.



ANTI PAL, LINE CRAWLING ADJUSTMENT (RV301,RV302,T301)

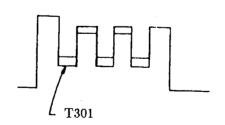
• ANTI PAL ADJUSTMENT

- 1.Input the PAL color-bar signal.
- 2.Set the PIC, COL and BRT centrols to normal.
- 3. Connect the oscilloscope to pin ③ of A-1 connector.
- 4. Adjust RV301 (DELAY) and RV302(PHASE) to obtain the waveform as shown below.

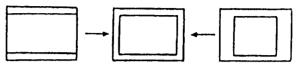


• LINE CRAWLING ADJUSTMENT

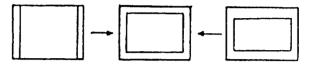
- 1.Input the PAL color-bar signal.
- 2.Set the PIC, COL and BRT controls to normal.
- 3. Connect the oscilloscope to pin 3 of A-1 connector.
- 4. Adjust T301 for minimum line crawling.



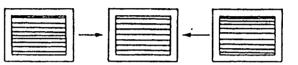
RV802 H.SIZE (HORIZONTAL SIZE)



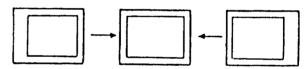
RV503 V.SIZE (VERTICAL SIZE)



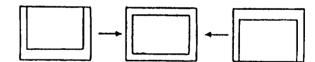
RV502 V.LIN (VERTICAL LINEARITY)



RV801 H.CENT (HORIZONTAL CENTER)

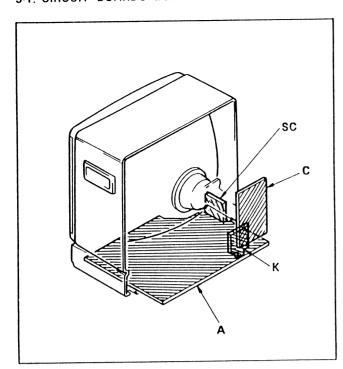


RV551 V.CENT (VERTICAL CENTER)



SECTION 5 DIAGRAMS

5-1. CIRCUIT BOARDS LOCATION



- All capacitors are in µF unless otherwise noted. pF: µµF 50 WV or less are not indicated except for electrolytics.
- Indication of resistance, which does not have one for rating electrical power, is as follows.

Pitch: 5 mm Rating electrical power 1/4 W

- : nonflammable resistor.
- : fusible resistor.
- : Internal component.
- : panel designation, and adjustment for repair.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
- All voltages are in V.
- Readings are taken with a 10 $\,M\Omega\,$ digital multimeter.
- Readings are taken with a color-bar signal input.
- no mark: with PAL color-bar signal received.): with SECAM color-bar signal received.
- Voltage variations may be noted due to normal production

: signal path.

Reference Information

METAL FILM RESISTOR : RN : RC SOLID

NONFLAMMABLE CARBON : FPRD NONFLAMMABLE FUSIBLE : FUSE

NONFLAMMABLE WIREWOUND NONFLAMMABLE METAL OXIDE : RS

NONFLAMMABLE CEMENT : RB COIL : LF-8L MICRO INDUCTOR

CAPACITOR : TA **TANTALUM** : PS STYROL

> : PP POLYPROPYLENE

: PT MYLAR METALIZED POLYESTER : MPS

: MPP METALIZED POLYPROPYLENE

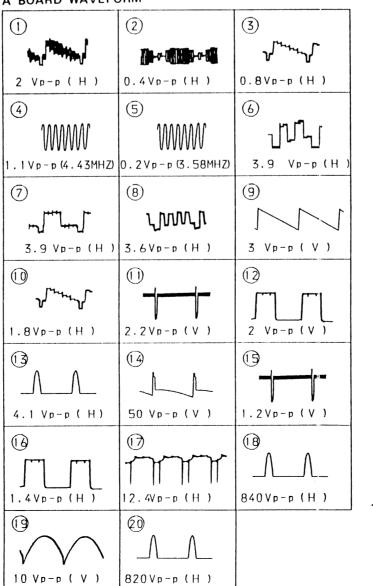
: ALB **BIPOLAR**

: ALT HIGH TEMPERATURE

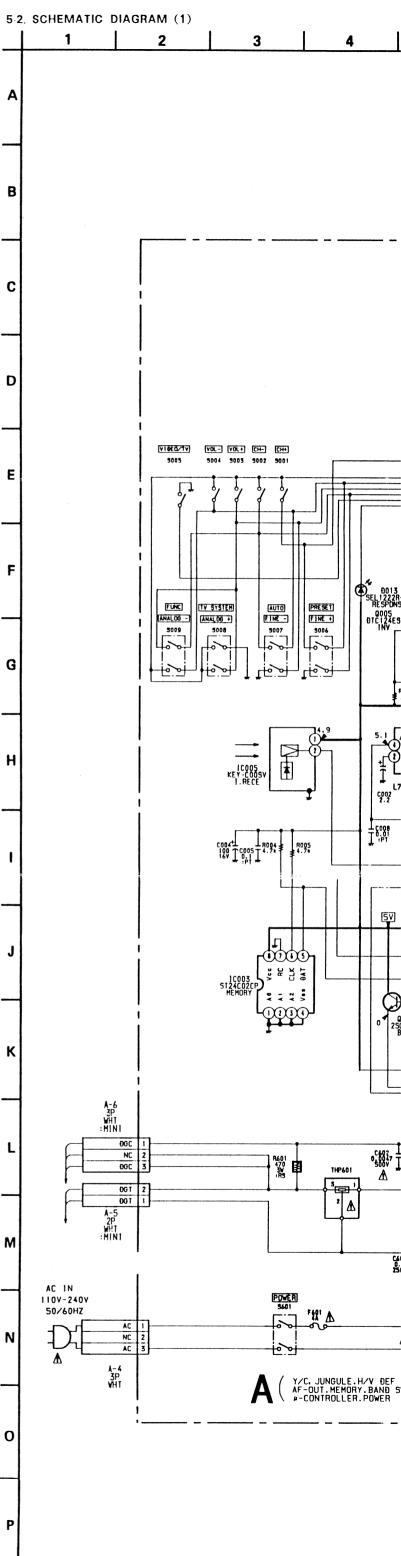
HIGH RIPPLE : ALR

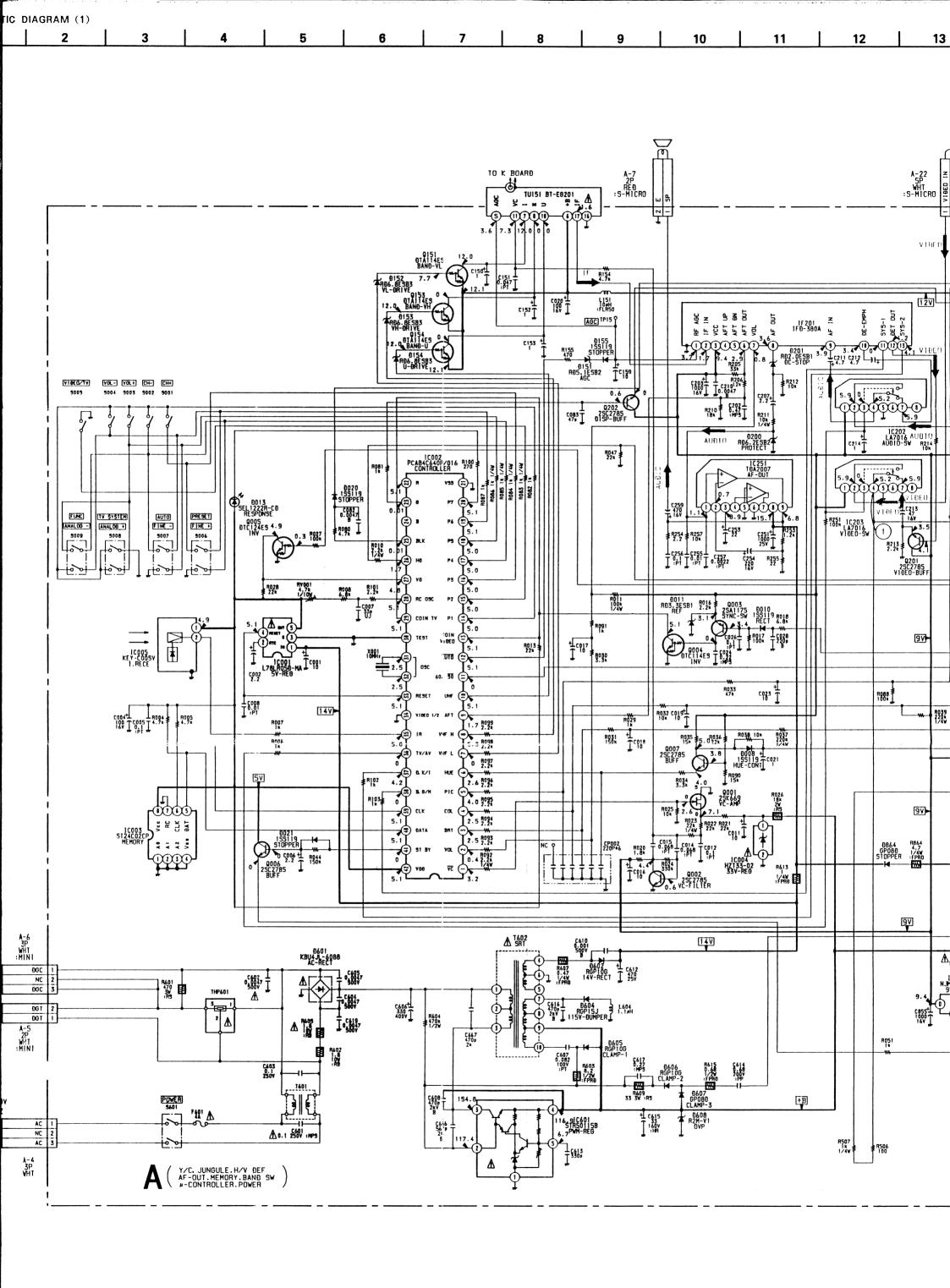
Note: The components identified by shading and mark A are critical for safety. Replace only with part number specified.

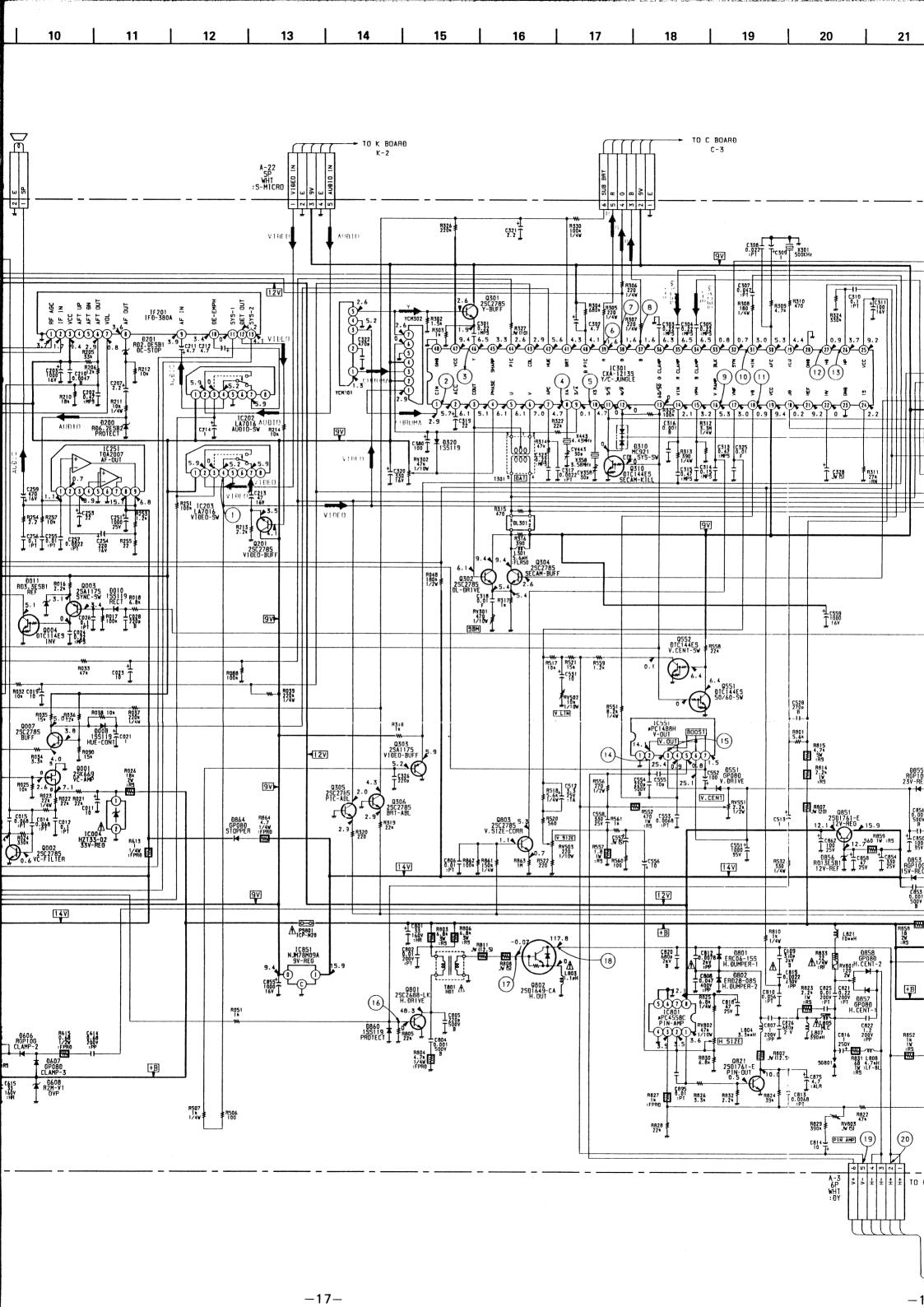
A BOARD WAVEFORM

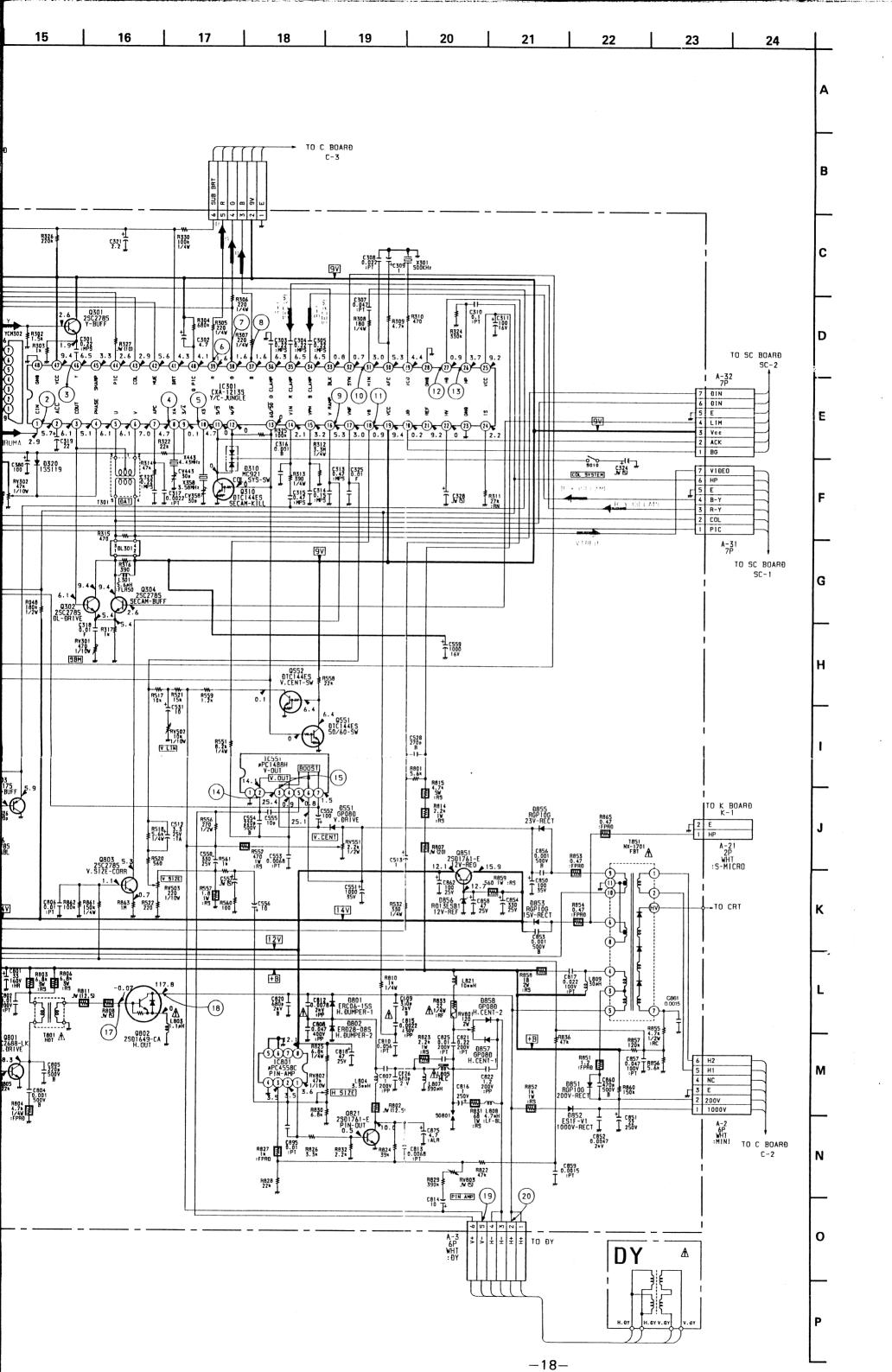


-15-









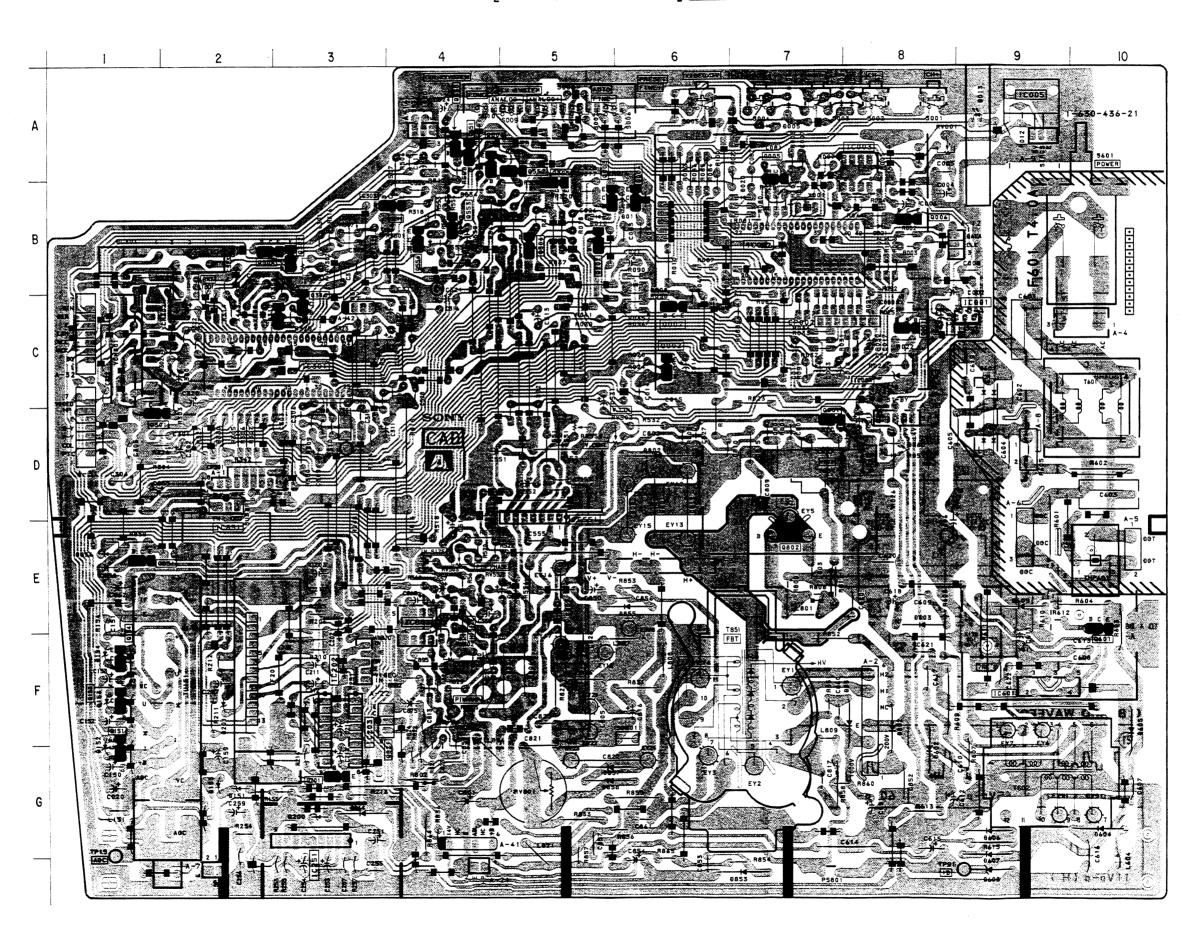
KV-1984MT RM-687C

KV-1984MT RM-687C

5-3. PRINTED WIRING BOARD (1) -CONDUCTOR SIDE-

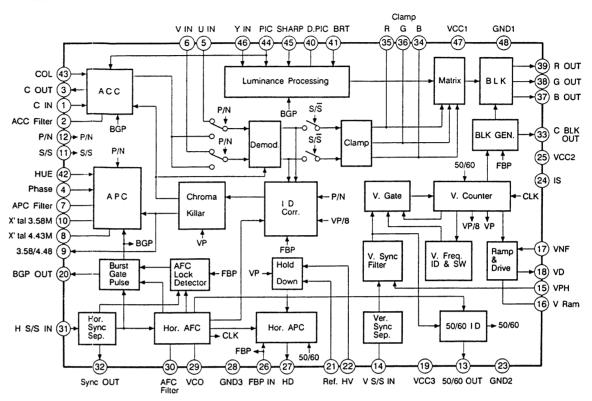
Y/C, JUNGLE, H/V DEF AF-OUT, MEMORY, BAND SW µ -CONTROLLER, POWER





ic	C	DIC	DE	DELAY	LINE
IC001 IC002 IC003	C-9 B-7 A-8	D008 D010 D011	B-6 B-5 B-6	DL301	B-1
IC004 IC005 IC202	C-8 A-9 F-3	D013 D020 D021	A-9 B-7 B-8	IF BL	
IC203 IC251 IC301 IC551	F-3 G-3 C-3 D-5	D151 D152 D153 D154	F-2 F-1 F-1 F-1	IF201	F-2
IC601 IC801	F-9 E-4	D155 D200	F-2 G-3	TUN	
IC851	D-2	D201 D310 D320 D551	F-2 C-3 C-2 D-5	TU151	F-2
TRANS		D601 D602	C-9 G-8	CRYS	TAL
Q001 Q002 Q003 Q004 Q005 Q006 Q007 Q151 Q153 Q154 Q201 Q202 Q301 Q302 Q303 Q304 Q305 Q306 Q31Q Q551	C-8 C-7 B-5 B-6 A-8 C-1 F-1 F-1 G-5 D-3 B-2 A-5 B-3 A-4	D604 D605 D606 D607 D608 D801 D802 D851 D852 D853 D855 D856 D857 D858 D860 D864	G-10 F-10 G-9 G-9 G-9 D-6 D-6 F-8 F-8 G-7 E-6 E-1 G-5 G-5	X001 X301 X358 X443	B-7 D-3 C-2 C-2
Q552 Q801 Q802	A-5 D-7 E-7	1	ABLE STOR		
Q803 Q821 Q851	A-4 F-3 E-1	RV001 RV301 RV302 RV502 RV503 RV551 RV801 RV802	A-8 B-4 B-3 D-6 E-4 D-5 G-5 F-4		

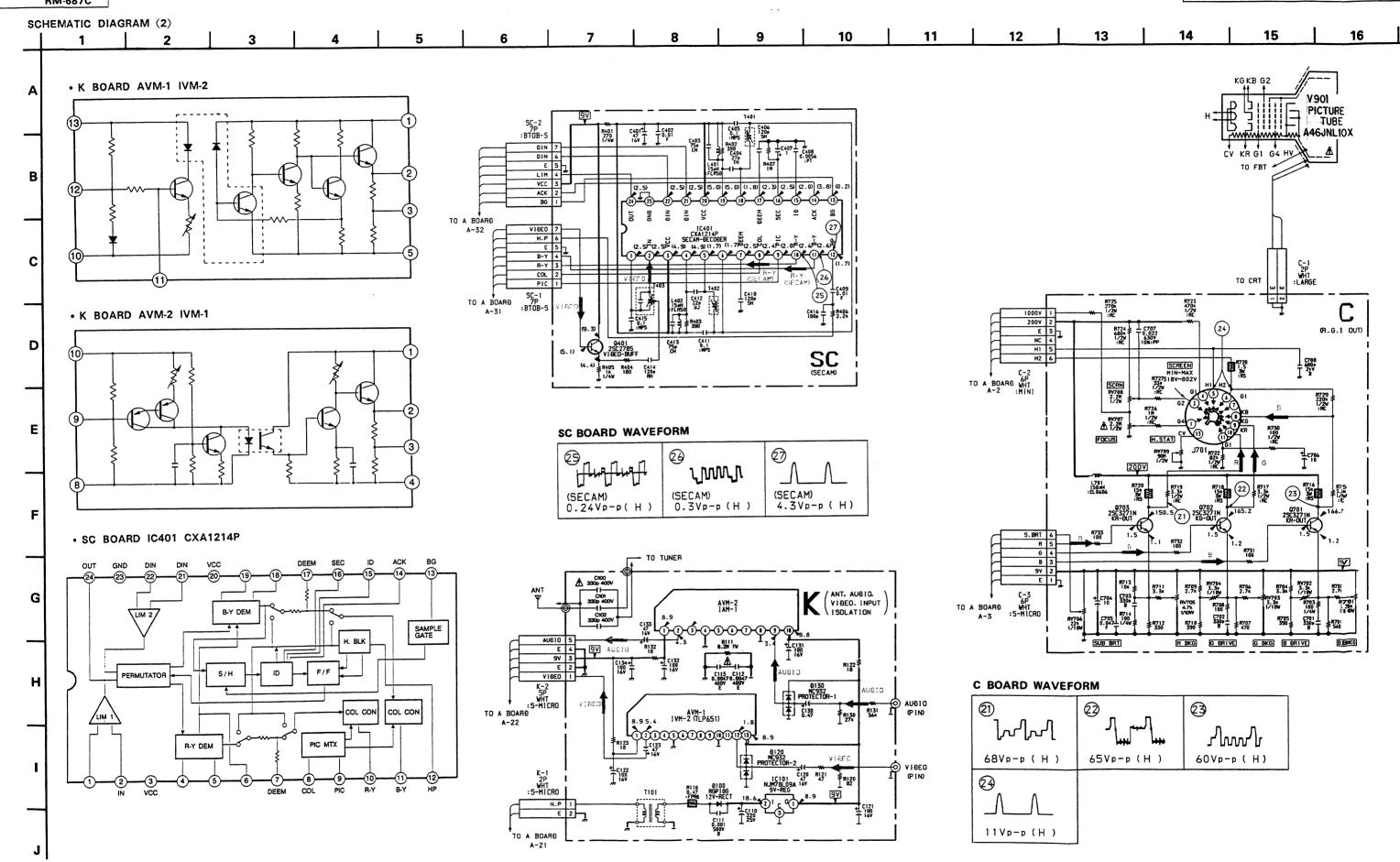
• A BOARD IC301 CXA1213S





NOTE:

The circuit indicated as left contains high voltage of over 600 Vp-p. Care must be paid to prevent an electric shock in inspection or repairing.



PRINTED WIRING BOARD (2)

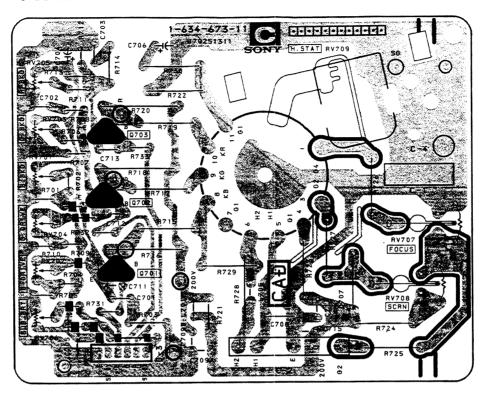
-CONDUCTOR SIDE-



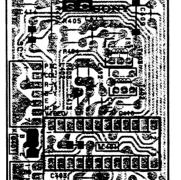




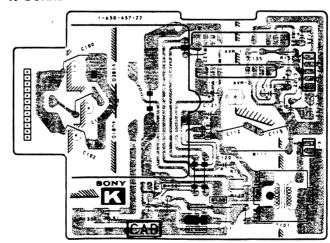
-C BOARD-



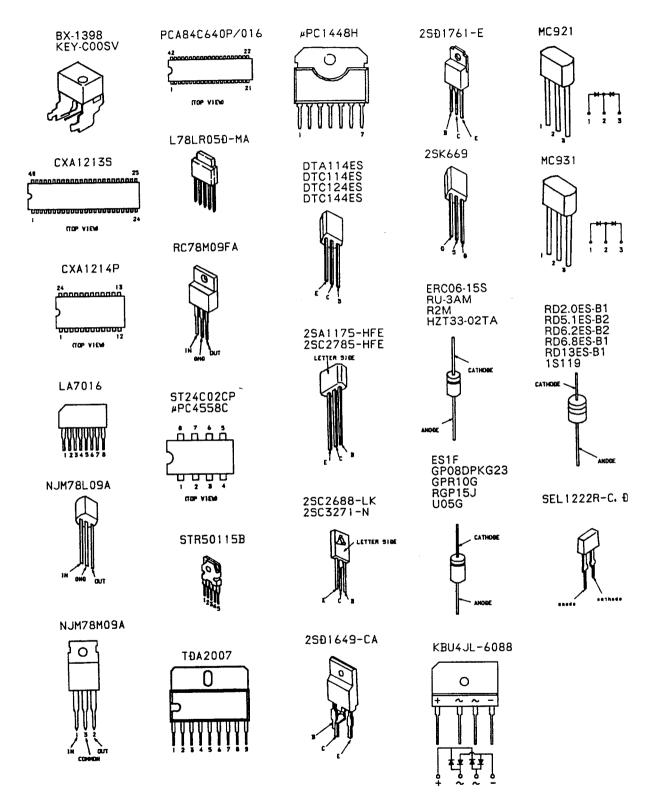
-SC BOARD-



-K BOARD-



5-4. SEMICONDUCTORS



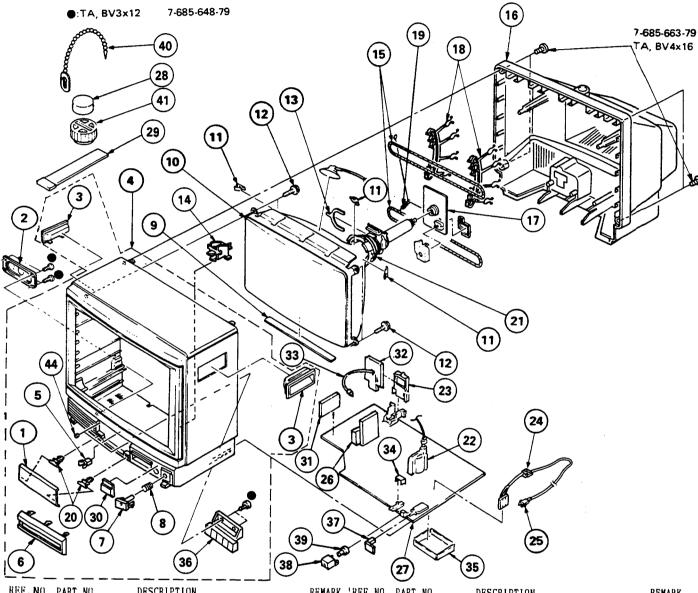
SECTION 6 EXPLODED VIEW

NOTE:

- · Items with no part number and no des-
- cription are not stocked because they are seldom required for routine service.
 The construction parts of an assembled part are indicated with a collation number in the remark column.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

The components identified by shading and mark A are critical for safety.

Replace only with part number specified.



REF. NO.	PART NO.	DESCRIPTION	REF.N	O. PART NO.	DESCRIPTION	REMARK
11 12 13 14 15 16 17 18 19 20 21 & A	4-397-459-01 4 397-456-01 4-329-112-00 4-372-556-11 8-737-951-05 3-703-961-01 4-307-249-00 1-452-277-00 *4-397-451-01 1-426-307-11 4-397-460-01 *A-1330-984-A *4-341-778-01 4-369-318-00 3-662-365-00 1-451-279-21	SPEAKER HANDLE BEZEL ASSY 1,3, CATCHER, PUSH PANEL, CONTROL BUTTON, POWER SPRING, COMPRESSION SHEET, BLOTTING PICTURE TUBE (A46JNL10X) SPACER, DY SCREW (5), TAPPING MAGNET, BMC HOLDER, PC BOARD COIL, DEMAGNETIZATION COVER, REA C BOARD, COMPLETE BAND, DEGAUSSING COIL SPRING, TENSION SHAFT (S), DOOR DEFLECTION YOKE (Y19PXA) TRANSFORMER ASSY, FLYBACK	25 26	▲.1-574-062-22 ▲.1-465-216-11 *Å-1296-736-A 1-452-032-00 X-4309-608-0 4-397-455-01 *1-630-438-11 *1-630-438-11 *1-575-691-11 *4-387-054-01 *4-394-974-01 4-397-458-01 4-397-458-01 4-387-889-01 *4-387-890-01 4-308-870-00	WINDOW, GRNAMENTAL SC BOARD K BOARD CABLE, PIN COVER, LED HOLDER CASE (BOTTOM LID), SHIELD BUTTON, MULTI CAP, POWER BRACKET (B), LIGHT GUIDE GUIDE, LIGHT CLIP, LEAD WIRE MAGNET, ROTATABLE DISK; 15MM	31

SECTION 7 ELECTRICAL PARTS LIST

NOTE:

The components identified by shading and mark A are critical for safety.

Replace only with part number specified.

Items marked " * " are not stocked Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

When indicating parts by reference number, please include the board name.

 All variable and adjustable resistors have characteristic curve B, unless otherwise noted. • MF : μF, PF : μμF

CAPACITORS COILS • MMH : mH, UH : μH

RESISTORS

- All resistors are in ohms
 F: nonflammable

REF.NO.	PART NO.	DESCRIPTION			REMARK	REF.NO.	PART NO.	DESCRIPTION			REMARK
	*A-1296-736-A	A BOARD, COM				C213	1-124-477-11	ELECT	47MF	20%	16 V
	* -508-765-00 * -508-768-00 * -564-505-11 * -564-508-11 * -564-509-11	PIN, CONNECT PIN, CONNECT PLUG, CONNEC PLUG, CONNEC PLUG, CONNEC	OR (5MM PITO TOR 2P TOR 5P	CH) 3P CH) 6P		C214 C251 C253 C254 C255	1-124-791-11 1-124-557-11 1-126-233-11 1-124-120-11 1-130-483-00	ELECT ELECT ELECT ELECT MYLAR	1MF 1000MF 22MF 220MF 0.01MF	20% 20% 20% 20% 5%	50 V 25 V 50 V 16 V 50 V
	*1-565-395-11 *1-565-498-11 *1-568-536-11 *4-341-751-01	PIN, CONNECT CONNECTOR, B PLUG (MINIAT EYELET (EYG, EY15, EY16, EY	OR 3P OARD TO BOAR URE DY) 6P EY7,EY9,EY11	,EY12,E	Y13,EY14, Y22,EY23,	C256 C257 C259 C266 C301	1-130-495-00 1-130-475-00 1-126-103-11 1-124-791-11 1-136-169-00	MYLAR MYLAR ELECT ELECT FILM	0.1MF 0.0022MF 470MF 1MF 0.22MF	5% 5% 20% 20% 5%	50 V 50 V 16 V 50 V 50 V
	* 4-341-752-01	EY24) EYELET (EY1,				C302 C303 C304 C305 C307	1-124-927-11 1-136-169-00 1-136-169-00 1-136-169-00 1-130-491-00	ELECT FILM FILM FILM MYLAR	4.7MF 0.22MF 0.22MF 0.22MF 0.047MF	20% 5% 5% 5% 5%	50 V 50 V 50 V 50 V 50 V
C001	<cap 1-123-875-11</cap 	ACITUR> ELECT	10MF	20%	50V	C308 C309	1-130-487-00 1-124-791-11	MYLAR Elect	0.022MF 1MF	5% 20%	50 V 50 V
C001 C002 C004 C005 C006	1-124-925-11 1-126-101-11 1-130-495-00 1-124-925-11	ELECT ELECT MYLAR ELECT	2.2MF 100MF 0.1MF 2.2MF	20% 20% 20% 5% 20%	50 V 16 V 50 V 50 V	C310 C311 C313	1-130-495-00 1-126-101-11 1-136-173-00	MYLAR ELECT FILM	0.1MF 100MF 0.47MF	5% 20% 5%	50 V 16 V 50 V
C007	1-102-963-00	CERAMIC	33PF	5% 5%	50V	C314 C315	1-136-167-00 1-136-173-00	FILM	0.15MF 0.47MF	5% 5%	50 V
C008 C011 C012 C014	1-130-483-00 1-123-875-11 1-130-495-00 1-130-493-00	MYLAR ELECT Mylar Mylar	0.01MF 10MF 0.1MF 0.068MF	5% 20% 5% 5%	50V 50V 50V 50V	C316 C317 C318	1-102-074-00 1-130-475-00 1-106-367-00	CERAMIC Mylar Mylar	0.001MF 0.0022MF 0.01MF	10% 5% 10%	50 V 50 V 20 O V
C015 C016 C017 C018 C019	1-130-493-00 1-123-875-11 1-123-875-11 1-123-875-11 1-123-875-11	MYLAR ELECT ELECT ELECT ELECT	0.068MF 10MF 10MF 10MF 10MF	5% 20% 20% 20% 20%	50V 50V 50V 50V 50V	C319 C320 C321 C322 C323	1-126-233-11 1-124-119-00 1-124-925-11 1-102-824-00 1-136-169-00	ELECT ELECT ELECT CERAMIC FILM	22MF 330MF 2.2MF 470PF 0.22MF	20% 20% 20% 5% 5%	50 V 16 V 50 V 50 V
C020 C021 C023 C024 C026	1-126-101-11 1-124-791-11 1-123-875-11 1-136-169-00 1-130-495-00	ELECT ELECT ELECT FILM MYLAR	100MF 1MF 10MF 0.22MF 0.1MF	20% 20% 20% 5%	16V 50V 50V 50V 50V	C325 C326 C380 C512 C513	1-101-004-00 1-102-978-00 1-124-122-11 1-131-350-00 1-124-791-11	CERAMIC CERAMIC ELECT TANTALUM ELECT	0.01MF 220PF 100MF 3.3MF 1MF	5% 20% 10% 20%	50V 50V 50V 25V 50V
C028 C082 C083 C150 C151	1-102-110-00 1-102-125-00 1-101-880-00 1-124-791-11 1-130-491-00	CERAMIC CERAMIC CERAMIC ELECT MYLAR	220PF 0.0047MF 47PF 1MF 0.047MF	10% 10% 10% 20% 5%	50V 50V 50V 50V 50V	C528 C531 C551 C552 C553	1-102-111-00 1-123-875-11 1-126-105-11 1-124-122-11 1-130-481-00	CERAMIC ELECT ELECT ELECT MYLAR	270PF 10MF 1000MF 100MF 0.0068MF	10% 20% 20% 20% 5%	50V 50V 35V 50V
C152 C153 C159 C202 C203	1-124-791-11 1-124-791-11 1-123-875-11 1-136-173-00 1-124-360-00	ELECT ELECT ELECT FILM ELECT	1MF 1MF 10MF 0.47MF 1000MF	20% 20% 20% 5% 20%	50V 50V 50V 50V 16V	C554 C555 C556 C558 C559	1-102-244-00 1-102-947-00 1-123-875-11 1-124-479-11 1-124-360-00	CERAMIC CERAMIC ELECT ELECT ELECT	220PF 10PF 10MF 330MF 1000MF	10% 0.5PF 20% 20% 20%	500V 50V 50V 25V 16V
C207 C210 C211 C212	1-124-925-11 1-102-125-00 1-124-927-11 1-124-927-11	ELECT CERAMIC ELECT BLECT	2.2MF 0.0047MF 4.7MF 4.7MF	20% 10% 20% 20%	50V 50V 50V 50V	C602 A C603 A C604 A	.1-136-548-13 .1-161-830-51 .1-136-548-13 .1-161-830-51 .1-161-830-51	CERAMIC CERAMIC CERAMIC CERAMIC CERAMIC	0.1MF 0.0047MF 0.1MF 0.0047MF 0.0047MF	20%	250V 500V 250V 500V 500V



The components identified by shading and mark \triangle are critical for safety.
Replace only with part number specified.

REF.NO.	PART NO.	DESCRIPTION			REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
C606 C607 C608 C610 C612	1-125-555-11 1-106-218-00 1-162-134-11 1-162-318-11 1-124-480-11	BLECT MYLAR CERAMIC CERAMIC BLECT	330MF 0.082MF 470PF 0.001MF 470MF	20% 10% 10% 10% 20%	100V 2KV	D013	8-719-109-66 8-719-311-89 *4-387-028-01 8-719-911-19	DIODE RD3.3ES-B2 DIODE SEL1222R-C HOLDER, LED; DO13 DIODE 1SS119	
C613 C614 C615	1-102-820-00 1-136-109-00 1-123-024-21	CERAMIC FILM ELECT	330PF 0.68MF 33MF 470PF 0.27MF	5% 5%	50V 200V 160V 2KV 50V	D021 D151 D152 D153	8-719-911-19 8-719-109-85 8-719-109-98 8-719-109-98	DIODE ISSII9 DIODE RD5.1ES-B2 DIODE RD6.8ES-B3 DIODE RD6.8ES-B3 DIODE RD6.8ES-B3	
C619 ▲ . C666 C66 7	1-161-830-51 1-162-135-11 1-162-134-11 1-123-024-21	CERANIC CERANIC CERANIC		0		D154 D155 D200 D201 D310	8-719-911-19 8-719-109-93	DIODE 1SS119 DIODE RD6.2ES-B2 DIODE RD2.0ES-B1 DIODE MC921	
C804 C805 C806 C807	1-162-318-11 1-102-244-00 1-130-483-00 1-136-111-00 1-136-313-51	CERAMIC CERAMIC MYLAR FILM		10% 10% 5% 5%	500V 500V 50V 200V	D551 D601 A D602	8-719-911-55 -8-719-946-90 8-719-300-33 8-719-979-85	DIODE 105G DIODE RU-3AM DIODE RU-3AM DIODE RU-3AM DIODE RU-3AM	
C809 A C810 C812 A	1-162-115-51 1-130-492-11 1-136-545-14 1-130-481-00 1-123-875-11	MYLAR MYLAR	33000	TOY:	*28¥	D606 D607 D608 D801	8-719-300-33 8-719-911-55 8-719-303-49 8-719-945-80	DIODE RU-3AM DIODE UOSG DIODE R2M DIODE ERCO6-15S	:
C815 A	1-129-898-51 1-124-634-11 1-106-375-12 1-124-477-11 1-162-116-00	FILE ELECT MYLAR ELECT	0.0022MF 1MF 0.022MF 47MF		630V 250V 100V 25V	D802 D851 D852 D853 D855	8-719-300-33 8-719-300-33	DIODE ERD28-08S DIODE RU-3AM DIODE ESIF DIODE RU-3AM DIODE RU-3AM	
C821 C822 C825 C826 C850	1-106-399-00 1-136-569-11	MYLAR FILM MYLAR CERANIC	680PF 0.22MF 1.2MF 0.01MF 680PF 100MF	10% 5% 10% 10% 20%	2KV 200V 200V 200V 2KV 35V	D856 D857 D858 D860 D864	8-719-911-55 8-719-911-55 8-719-911-19 8-719-911-55	DIODE RD13ES-B1 DIODE U05G DIODE U05G DIODE 1SS119 DIODE U05G	
C851 C852 C853 C854 C855	1-123-948-00 1-162-114-00 1-162-318-11 1-124-479-11 1-124-360-00	ELECT CERANIC CERANIC	22MF 0.0047MF 0.001MF 330MF 1000MF	20% 10% 20% 20%	250V 2KV 500V 25V 16V	DL301		AY LINE> DELAY LINE, IH (PAL)	
C856 C857 C858 C859	1-162-318-11 1-106-383-00 1-124-477-11 1-130-473-00 1-102-228-00	CERANIC MYLAR ELECT MYLAR	0.001MF 0.047MF 47MF	10% 10% 20% 5% 10%	500V 100V 25V 50V 500V	F601 /A	: 1-532-350-114	FRSE, TIME-LAG 44/2507 (01 52)	
C861 C862	1-106-347-00 1-124-478-11 1-124-045-00 1-130-483-00	MYLAR Elect Elect	0.0015MF 100MF 4.7MF 0.01MF	10% 20% 20% 5%	100V 25V 50V 50V	1 C002 1 C003	8-759-984-26 8-759-988-32	ICART 33-02 TO DESCRIPTION	
	<00M 1-233-153-11 1-236-525-11			K.		10203 10251 10301 10551	8-759-800-81 8-759-800-81 8-759-985-06 8-752-036-21 8-759-113-05	IC TDA2007 IC CXA1213S IC UPC1488H	
CV358 CV443	<tri 1-141-245-00 1-141-245-00</tri 	MMER> TRIMMER, CER TRIMMER, CER	AMIC AMIC			10801	28-749-901-40 4-377-115-01 4-394-984-01 8-759-945-58 8-759-982-34	LC STR50115B parts of the SPACER (A), MICA; IC601 SPRING; IC601 IC RC4558P IC RC78M09FA	
D010	<d10 8-719-911-19 8-719-911-19</d10 					IF201		BLOCK> IF BLOCK (IFD-380A)	

The components identified by shading and mark \triangle are critical for safety.

Replace only with part number specified.



REF.NO.	PART NO.	DESCRIPTION	 -		REMARK	REF.NO.	PART NO.	DESCRIPTION				REMARK
						R023	1-249-462-11		22K	5%	1/4W	
	<011 1-410-470-11 1-408-406-00 1-410-397-21	.>				R024 R025		CARBON	330K 10K	5% 5%	1/4W 1/4W	_
L151 L301	1-410-470-11 1-408-406-00	INDUCTOR INDUCTOR	10UH 5.6UH			R026 R027 R028	1-216-464-11 1-249-441-11 1-249-433-11	METAL OXIDE CARBON CARBON	18K 100K 22K	5% 5% 5% 5%	2W 1/4W 1/4W	F
A.FORT	7-410-397-31	FERRITE BEAL) INDUCTUR			i	1-249-417-11	CARBON	1 K		1/4W	
£805. ∆	.1- 459 -760- 5 8	MARIE HORIZO	MINIALA LINE	ARITY TAL	8857 J	R030	1-249-423-11	CARBON CARBON CARBON	3.3K 150K 10K	5% 5% 5%	1/4W 1/4W 1/4W	
L807 L808 L809	1-408-239-00 1-459-407-00	INDUCTOR COIL, FERRIT	4.7MMH E CHOKE			R033	1-249-437-11	CARBON	47K	5%	1/40	
L821	1-459-075-00 1-459-760-33 1-459-390-00 1-408-239-00 1-459-104-00 <ic< td=""><td>COIL, DUST (</td><td>CORE</td><td></td><td></td><td>R034 R035</td><td>1-249-423-11 1-249-431-11 1-249-433-11</td><td>CARBUN CARBON CARBON</td><td>3.3K 15K 22K 220K</td><td>5% 5% 5%</td><td>1/4W 1/4W 1/4W</td><td></td></ic<>	COIL, DUST (CORE			R034 R035	1-249-423-11 1-249-431-11 1-249-433-11	CARBUN CARBON CARBON	3.3K 15K 22K 220K	5% 5% 5%	1/4W 1/4W 1/4W	
							1-247-887-00 1-249-429-11	CARBON CARBON	220K 10K	5% 5%	1/4W 1/4W	
PS801A	. 1-532-679-91	LINK, IC (II	CP-N15) U.	6A		R039 R044	1-247-887-00 1-247-883-00	CARBON CARBON	220K 150K	5% 5%	1/4W 1/4W	
	<tra< td=""><td>NSISTOR></td><td>20144</td><td></td><td></td><td>R047 R048</td><td>1-249-433-11 1-214-919-00 1-249-417-11</td><td>CARBON CARBON CARBON</td><td>150K 22K 180K 1K</td><td>5% 5% 5%</td><td>1/4W 1/2W 1/4W</td><td></td></tra<>	NSISTOR>	20144			R047 R048	1-249-433-11 1-214-919-00 1-249-417-11	CARBON CARBON CARBON	150K 22K 180K 1K	5% 5% 5%	1/4W 1/2W 1/4W	
4001 4002 4003	8-729-808-36 8-729-119-78 8-729-119-76	TRANSISTUR : TRANSISTOR : TRANSISTOR :	25K669 25C2785-HF 25A1175-HF	E E		R080	1-249-417-11		4.7K	5%	1/4W	
0004 0005	8-729-900-80 8-729-900-36	TRANSISTOR I	DTC114ES DTC124ES			R081 R082	1-249-417-11 1-249-417-11 1-247-713-11	CARBON CARBON CARBON CARBON CARBON	1 K 1 K 1 K	5% 5% 5% 5%	1/4W 1/4W 1/4W	
9006 9007	8-729-119-78 8-729-119-78	TRANSISTOR TRANSISTOR	2SC2785-IIF 2SC2785-IIF	ie E		R084	1-247-713-11		1 K		1/4W	
Q151 Q153 Q154	8-729-900-61 8-729-900-61	TRANSISTOR TRANSISTOR TRANSISTOR	DTAII4ES DTAII4ES DTAII4ES			R085 R086 R087	1-247-713-11 1-247-713-11 1-249-417-11	CARBON CARBON CARBON	1 K 1 K 1 K	5% 5% 5% 5%	1/4W 1/4W 1/4W	
9201	8-729-119-78	TRANSISTOR	2SC2785-III	E		R088 R090	1-249-441-11 1-249-431-11	CARBON	100K 1 5K	5% 5%	1/4W 1/4W	
Q202 Q301 Q302	8-729-119-78 8-729-119-78 8-729-119-78	TRANSISTUR TRANSISTOR TRANSISTOR	2SC2785-HI 2SC2785-HI 2SC2785-HI	*E FE		R091 R092	1-249-417-11 1-247-717-11	CARBON CARBON	1K 2.2K	5% 5%	1/4W 1/4W	
4303	8-729-119-76	TRANSISTOR	2SA1175-III	FE .		R093 R094	1-249-421-11 1-249-421-11 1-249-421-11	CARBON CARBON	2.2K 2.2K 2.2K	5% 5% 5%	1/4W 1/4W 1/4W	
4304 4305 4306	8-729-119-78 8-729-119-78 8-729-119-78	TRANSISTOR TRANSISTOR	2SC2785-III 2SC2785-III	FE FE		R096	1-249-421-11	CARRON	2.2K 2.2K		1/40	
Q310 Q551	TRA 8-729-808-36 8-729-119-78 8-729-900-80 8-729-900-36 8-729-119-78 8-729-900-61 8-729-900-61 8-729-900-61 8-729-119-78	TRANSISTOR TRANSISTOR	DTC144ES DTC144ES			R097 R098 R099	1-249-421-11 1-249-421-11 1-249-421-11	CARBON	2.2K 2.2K	5% 5% 5% 5%	1/4W 1/4W 1/4W	
4552 4801	8-729-900-89 8-729-119-80	TRANSISTOR TRANSISTOR	DTC144ES 2SC2688-L	Ķ		R100	1-249-410-11 1-249-421-11	CARBON	270		1/4W 1/4W	
Q802 Q803	8-729-802-50 4-394-984-01 8-729-119-78	SPRING; Q80 TRANSISTOR	2501649-0 2 2SC2785-	a Fe		R102 R103	1-249-421-11 1-249-417-11 1-249-417-11	CARBON	2.2K 1K 1K	5% 5%	1/4W 1/4W	
4821 4851	8-729-107-26 8-729-107-26	TRANSISTUR	2501585 K			R154 R155	1-249-425-11 1-249-413-11	CARBON CARBON	4.7K 470	5% 5% 5%	1/4W 1/4W	
TCOP			2001JUJ K			R205 R206	1-249-435-11 1-249-430-11	CARBON	33K 12K	5% 5% 5% 5%	1/4W 1/4W 1/4W	
R004	<re: 1-249-425-11</re: 	SISTOR> CARBON	4.7K	5% 1/4 ¹	W	R210 R211 R212	1-249-432-11 1-247-725-11 1-249-429-11	CARBON CARBON CARBON	18K 10K 10K	5% 5%	1/4W 1/4W	
R005 R006	1-249-425-11 1-249-417-11	CARBON CARBON	4.7K 1K	5% 1/4 5% 1/4	W W	R213 R214	1-249-421-11 1-249-429-11		2.2K 10K	5% 5%	1/4W 1/4W	
R007 R008	1-249-417-11 1-249-427-11	CARBON		5% 1/4 5% 1/4	W	R251 R253	1-249-441-11 1-249-418-11	CARBON CARBON	100K 1.2K	5%	1/4W 1/4W	
R010 R011 R013	1-247-717-11 1-249-469-11 1-249-433-11	CARBON	2.2K 100K 22K	5% 1/4 5% 1/4 5% 1/4	W	R254	1-249-385-11 1-249-397-11		2.2	5% 5%	1/4W 1/4W	
R016 R017	1-249-421-11 1-249-441-11	CARBON	2.2K 100K	5% 1/4 5% 1/4	W	R257 R266	1-249-429-11 1-249-441-11	CARBON CARBON	10K 100K		1/4W 1/4W 1/4W	
R018 R020	1-249-427-11 1-249-420-11	CARBON CARBON	6.8K 1.8K	5% 1/4 5% 1/4 5% 1/4		R302 R303	1-249-419-11 1-249-417-11	CARBON	1.5K 1K	5%	1/4W	
R021 R022	1-249-433-11 1-249-433-11	CARBON	22K 22K	5% 1/4 5% 1/4	W	R304 R305	1-247-899-11 1-247-704-11		680K 220	5% 5%	1/4W 1/4W	



The components identified by shading and mark Δ are critical for safety.

Replace only with part number

specified.

REF.NO.	PART NO.	DESCRIPTION				REMARK	REF.NO.	PART NO.	DESCRIPTION				REMARK
R306 R307 R308 R309 R310	1-247-704-11 1-247-704-11 1-247-703-11 1-249-425-11 1-249-413-11	CARBON CARBON CARBON CARBON CARBON	220 220 180 4.7K 470	57	1/4W 1/4W 1/4W 1/4W 1/4W		R836 R851 R852	1-212-865-51 1-249-437-11 1-249-382-11 1-215-869-11	CARBON CARBON METAL OXIDE	47K 1.2	5% 5%	1/4W 1/4W 1/4W 1W	F F
R311 R312 R313 R314 R315	1-215-455-00 1-249-751-11 1-247-707-11 1-249-437-11 1-249-413-11	METAL CARBON CARBON CARBON CARBON	27K 3.3M 390 47K 470	1% 5% 5% 5%	1/6W 1/4W 1/4W 1/4W		R854 R855 R856 R857	1-247-881-00	CARBON CARBON SOLID CARBON CARBON	0.47 4.7K 5.6K 120K	5% 10% 5%	1/4W 1/4W 1/2W 1/4W 1/4W	F
R316 R317 R318 R319 R320	1-249-412-11 1-249-417-11 1-249-417-11 1-249-433-11 1-249-409-11	CARBON CARBON CARBON CARBON CARBON	390 1K 1K 22K 220	5% 5% 5% 5%	1/4W 1/4W 1/4W 1/4W 1/4W		R859 R860 R861 R862	1-216-446-00 1-216-431-11 1-247-883-00 1-247-883-00 1-249-441-11	CARBON CARBON CARBON	150K 150K 100K	5% 5% 5%	2W 1W 1/4W 1/4W 1/4W	F
R322 R324 R325 R326 R330	1-249-433-11 1-247-891-00 1-249-441-11 1-247-887-00 1-249-469-11	CARBON CARBON CARBON CARBON CARBON	22K 330K 100K 220K 100K	5% 5% 5% 5%	1/4W 1/4W 1/4W 1/4W		R864 R865	1-247-903-00 1-249-455-11 1-249-377-11		0.47	5% 5% 5%	1/4W 1/4W 1/4W	
R506 R507 R517 R518 R520	1-249-405-11 1-247-713-11 1-249-429-11 1-247-722-11 1-249-414-11	CARBON CARBON CARBON CARBON CARBON	100 1K 10K 5.6K 560	5% 5% 5% 5%]/4W 1/4W 1/4W 1/4W 1/4W		RV001 RV301 RV302 RV502	<pre><var 1-224-250-99<="" 1-238-009-11="" 1-238-011-11="" 1-238-015-11="" 1-238-016-11="" 1-238-019-11="" pre=""></var></pre>	RES, ADJ, CAR RES, ADJ, CAR RES, ADJ, CAR RES, ADJ, CAR RES, ADJ, CAR	BON 4.71 BON 470 BON 47K BON 10K	₹		
R521 R522 R532 R551 R552	1-249-431-11 1-249-409-11 1-247-706-11 1-247-724-11 1-215-867-00	CARBON CARBON CARBON CARBON METAL OXIDE	15K 220 330 8.2K 470	5% 5% 5% 5%]/4W 1/4W	F	RV801	1-223-102-00	RES, ADJ, CAR RES, ADJ, MET RES, ADJ, WIR RES, ADJ, CAR	AL GLAZE Ewound	3 2.2k 120	(
R556 R557 R558 R559 R560	1-247-744-11 1-216-352-11 1-249-433-11 1-249-418-11 1-249-405-11	CARBON METAL OXIDE CARBON CARBON CARBON	270 1.8 22K 1.2K 100	5% 5% 5% 5%	1/2W 1W 1/4W 1/4W 1/4W	F	S002 S003	1-572-077-11 1-572-077-11	SWITCH, TACTII SWITCH, TACTII SWITCH, TACTII	LE Le			
R561 R601 R602 R603 R604	1-249-417-11 1-215-915-11 1-205-949-11 1-249-485-11 1-214-929-00	CARBON METAL OXIDE WIREWOUND CARBON CARBON	1K 470 1.8 8.2 470K	5% 5% 5% 5%	1/4W 3W 10W 1/2W 1/2W	F	S005 S006 S007 S008	1-572-077-11 1-572-077-11 1-572-076-11 1-572-076-11 1-572-076-11	SWITCH, TACTII SWITCH, TACTII SWITCH BLOCK SWITCH BLOCK SWITCH BLOCK				
K607 R609	1-249-443-11	WIREWOUND CARBON METAL OXIDE CARBON CARBON	0.47 33 1 0.68	5% 5%	1/4W 1/4W 3W 1/4W 1/2W	F (23) S F F F F	S009 S010 S601 ∆ .		SWITCH BLOCK SWITCH BLOCK SWITCH: PUSH:	(ACIPOWE	802 (8	- 227-8	802
R801 R803 R804 R805 R806	1-249-426-11 1-215-922-11 1-247-721-11 1-249-433-11 1-215-922-11	CARBON METAL OXIDE CARBON CARBON METAL OXIDE	5.6K 6.8K 4.7K 22K 6.8K	5% 5% 5% 5%	1/4W 1/4W	ቸ ፑ	SG801	1-519-422-11	RK GAP> GAP, SPARK NSFORMER>				
R810 R814 R815 R822 R823	1-247-713-11 1-215-871-11 1-215-946-11 1-249-437-11 1-215-871-11	CARBON METAL OXIDE METAL OXIDE CARBON METAL OXIDE	1K 2.2K 4.7K 47K 2.2K	5% 5% 5% 5%	5W 1/4W	F F	T601 ▲. T602 ▲. T801 ▲.	1-404-524-11 1-421-776-11 1-448-935-12 1-437-078-11 1-439-424-11	DAT LFT: # SRT: # TRANSFORMER,# TRANSFORMER #S	IBAA IORIZONT ISYA FLY	AL DR	-682-1	996 1107
R824 R825 R826 R827 R828	1-249-436-11 1-247-723-11 1-249-423-11 1-249-417-11 1-249-433-11	CARBON CARBON CARBON CARBON CARBON	39K 6.8K 3.3K 1K 22K	5% 5% 5% 5% 5%	1/4W 1/4W 1/4W 1/4W 1/4W	F.	THP6014		RMISTOR>	POSITIVE	1-12)	-035-1	416
R829 R830 R831 R832	1-247-893-11 1-249-427-11 1-215-862-11 1-249-421-11	CARBON CARBON METAL OXIDE CARBON	390K 6.8K 68 2.2K	5% 5% 5% 5%	1/4W 1/4W 1W 1/4W	F	TU1514.	<tuni 1-465-216-11</tuni 	ER> Tuner, et (bt:	-EG201)	1 64	glas di Lat di seni	13 ⁸ € + એ 1



REF.NO	. PART NO.	DESCRIPTI	ON 		REMARK	REF.NO.	. PART NO.	DESCRIPTIO	N -		REMARK
	<cry< td=""><td>STAL></td><td></td><td></td><td></td><td></td><td>1-404-496-00 1-404-584-11</td><td></td><td></td><td></td><td></td></cry<>	STAL>					1-404-496-00 1-404-584-11				
X001	1-577-619-11					*****	*******	******	********	******	*******
X301 X358 X443	1-577-611-11 1-567-505-11 1-567-504-11	OSCILLATOR	. CRYSTAL				*A-1330-984-A	C BUARD, CO			
	< M UD	ULE>					*1-506-371-00 *1-508-768-00	PIN, CONNEC	TOR (5MM PIT	CH) 6P	
YCM301 YCM302	1 1-235-833-11 2 1-236-228-11	YC MODULE Filter modi	ULE			! ! !	1-526-814-11 *I-564-509-11	PLUG, CONNE	CTOR 6P		
*****	**********	********	*********	******	*******		<cai< td=""><td>ACITOR></td><td></td><td></td><td></td></cai<>	ACITOR>			
	*1-630-438-11	SC BOARD				C701 C702 C703	1-102-112-00 1-102-112-00 1-102-113-00	CERAMIC	330PF 330PF 390PF	10% 10%	50V 50V 50V
	*1-565-483-11	CONNECTOR,	BOARD TO BUA	RD 7P		C704 C705	1-123-875-11 1-101-006-00	ELECT	10MF 0.047MF	10% 20%	50V 50V
	<cap< td=""><td>ACITOR></td><td></td><td></td><td></td><td>C706</td><td>1-123-875-11</td><td>ELECT</td><td>10MF</td><td>20%</td><td>50V 630V</td></cap<>	ACITOR>				C706	1-123-875-11	ELECT	10MF	20%	50V 630V
C401	1-124-477-11		47MF	20%	16V	C707 C708	1-129-718-00 1-162-116-00	CERAMIC	0.022MF 680PF	10% 10%	2KV
C402 C403 C404 C405	1-101-004-00 1-101-890-00 1-102-961-00 1-136-165-00	CERAMIC CERAMIC FILM	0.01MF 75PF 27PF 0.1MF	5% 5% 5%	50V 50V 50V 50V	, 1 1 1 1 1	<001	L>			
C406	1-102-816-00	CERAMIC	120PF	5%	50)V	L701	1-408-423-00	INDUCTOR	150UH		
C407 C408 C409	1-124-791-11 1-108-689-11 1-101-004-00	ELECT Mylar Ceramic	1MF 0.0056MF 0.01MF	20% 5%	50V 50V 50V			NSISTOR>			
C410	1-102-816-00	CERAMIC	120PF	5%	50V	Q701 Q702	8-729-906 -3 8 8-729-906-38	TRANSISTOR 2	2SC3271-N		
C411 C412 C413 C414	1-136-165-00 1-102-959-00 1-101-890-00 1-102-816-00		0.1MF 22PF 75PF	5% 5% 5% 5%	50V 50V 50V	Q703	8-729-906-38	TRANSISTOR 2	2SC3271-N		
č415	1-136-165-00	FILM	120PF 0.1MF	5% 5%	50 V 50 V			ISTOR>			
C416	1-102-973-00	CERAMIC	100PF	5%	50 V	R701 R702 R703 R704	1-249-414-11 1-249-422-11 1-247-700-11 1-249-421-11	CARBON CARBON	560 5% 2.7K 5% 100 5% 2.2K 5%	1/4W 1/4W 1/4W 1/4W	
	<1C>					R705	1-249-412-11		390 5%	1/4W	
10401	8-752-036-22	IC CXA1214F)			R706 R707 R708	1-249-422-11 1-249-413-11 1-249-405-11	CARBON	2.7K 5% 470 5% 100 5% 2.7K 5%	1/4W 1/4W 1/4W	
	<c011< td=""><td>L></td><td></td><td></td><td></td><td>R709</td><td>1-249-422-11 1-249-412-11</td><td>CARBON</td><td>2.7K 5% 390 5%</td><td>1/4W</td><td></td></c011<>	L>				R709	1-249-422-11 1-249-412-11	CARBON	2.7K 5% 390 5%	1/4W	
6401 6402	1-408-411-00 1-408-411-00	INDUCTOR INDUCTOR	15UH 15UH			R711	1-249-423-11			1/4W	
	1 100 111 00	7110007011	15011			R712 R713	1-249-411-11 1-249-429-11	CARBON CARBON CARBON	3.3K 5% 330 5% 10K 5%	1/4W 1/4W 1/4W	
	<trai< td=""><td>NSISTOR></td><td></td><td></td><td></td><td>R714 R715</td><td>1-247-700-11 1-202-824-00</td><td>CARBON SOLID</td><td>100 5% 3.3K 10%</td><td>1/4W 1/2W</td><td></td></trai<>	NSISTOR>				R714 R715	1-247-700-11 1-202-824-00	CARBON SOLID	100 5% 3.3K 10%	1/4W 1/2W	
Q401	8-729-119-78	TRANSISTOR	2SC2785-HFE			R716	1-215-924-00	METAL OXIDE	15K 5%		F
	<res< td=""><td>STOR></td><td></td><td></td><td></td><td>R717 R718</td><td>1-202-824-00 1-215-924-00</td><td>SOLID METAL OXIDE</td><td>3.3K 10% 15K 5%</td><td>1/2W</td><td>•</td></res<>	STOR>				R717 R718	1-202-824-00 1-215-924-00	SOLID METAL OXIDE	3.3K 10% 15K 5%	1/2W	•
R401	1-247-704-11	CARBON	220 5%	1/4W		R719 R720	1-202-824-00 1-215-924-00	SOLID METAL OXIDE	3.3K 10% 15K 5%	1/2W	F
R402 R403	1-249-412-11 1-249-412-11	CARBON CARBON	220 5% 390 5% 390 5%	1/4W 1/4W		R722	1-202-837-00				F
R404 R405	1-249-408-11 1-249-417-11	CARBON CARBON	180 5% 1K 5%	1/4W 1/4W 1/4W		R723	1-202-846-00	SOLID SOLID	82K 10% 470K 10%	1/2W 1/2W	
R406	1-247-717-11	CARBON	2.2K 5%	1/4W	ļ	R724 R725 R726	1-202-848-00 1-202-843-11 1-202-719-00	SOLID SOLID SOLID	680K 10% 270K 10% 1M 10%	1/2W 1/2W 1/2W	
R407	1-247-903-00	CARBON	1M 5%	1/4W	 	R727	1-202-814-11	SOLID	33K 10%	1/2W	
	<trai< td=""><td>NSFORMER></td><td></td><td></td><td>į</td><td>R728 R729</td><td>1-216-391-11 1-202-842-11</td><td>METAL OXIDE</td><td>1.5 5% 220K 10%</td><td>3W 1/2W</td><td>7</td></trai<>	NSFORMER>			į	R728 R729	1-216-391-11 1-202-842-11	METAL OXIDE	1.5 5% 220K 10%	3W 1/2W	7
T401	1-404-496-00	COIL			i ! !	R730 R731	1-202-549-00	SOLID CARBON	100 10% 100 5%	1/2W 1/4W	



The components identified by shading and mark \triangle are critical for safety.
Replace only with part number specified.

REF.NO	. PART NO.	DESCRIPTION			REMARK	REF.NO.	PART NO.	DESCRIPTION				REMARK
R732 R733	1-249-405-11 1-249-405-11		100 5% 100 5%	1/4W 1/4W		R130 R131	1-249-396-11 1-249-434-11 1-249-438-11 1-249-396-11	CARBON CARBON	18 27K 56K 18	5% 5% 5%	1/4W 1/4W 1/4W 1/4W	
	<var< td=""><td>TABLE RESISTOR</td><td>!></td><td></td><td></td><td>1 1172</td><td>1 249 390 11</td><td>Childon</td><td>10</td><td>J No.</td><td>1/ 4"</td><td></td></var<>	TABLE RESISTOR	!>			1 1172	1 249 390 11	Childon	10	J No.	1/ 4"	
RV702	1-228-992-11 1-228-992-11	RES, ADJ, CAI	RBON 3.3K			! !		NSFORMER>				
RV704	1-228-992-11	RES. ADJ. CAR	RBON 3.3K			ŀ	1-421-823-11					******
	1-228-992-11							CELLANEOUS			***	
RV707 RV708	A. 1-230-641-21 1-230-641-11	RES, ADJ, MET RES, ADJ, MET	TAL GLAZE 2. TAL GLAZE 2.	2M			***	******				
R V7 09	1-230-798-11	RES, ADJ, MET	FAL GLAZE 90	ıM		1 1	.1-426-307-11	DEFLECTION YO	OKE (Y19	PXA)		
****	*1-630-437-11		*********	******	******		1-452-032-00 1-452-094-00 1-452-277-00	MAGNET, ROTAT	CABLE DI	SK; 1	5NN Ø	
		******					1-544-190-11	SPEAKER				
•	∆ .1-537-249-11 *1-564-505-11	PLUG, CONNEC	ror 2P				.1-574-062-22 +1-575-691-11		(WITH CO	INNECT	OR)	
	* 1-564-508-11	PLUG, LUNNEC	יוכ אטו			V901 ∆	.8-737-951-05	PICTURE TUBE	(A46JNI	_10X)		
	<mod< td=""><td>ULE></td><td></td><td></td><td></td><td>*****</td><td>*********</td><td>**********</td><td>******</td><td>*****</td><td>*##**</td><td>******</td></mod<>	ULE>				*****	*********	**********	******	*****	*##**	******
AVM1 AVM2	1-808-809-11 1-235-784-12							IES AND PACKIN				
	<cap< td=""><td>ACITOR></td><td></td><td></td><td></td><td></td><td>PART NG.</td><td>DESCRIPTION</td><td></td><td></td><td></td><td>REMARK</td></cap<>	ACITOR>					PART NG.	DESCRIPTION				REMARK
C100	A. 1-164-002-51	CERAMI C	330PF	20%	400V	<u>A</u>	. 1-417-149-11	MIXER, U/V				
C102	A. 1-164-002-51 A. 1-164-002-51	CERAMIC	330PF 330PF 220MF	20% 20% 20%	400V 400V 25V			MATCHING TRAN REMOTE COMMAN ANTENNA, TELE	NDER (RI	k, ant 4-6870	ENA	
CIII	1-124-120-11 1-162-318-11	CERAMIC	0.001MF	10%	500V			ADAPTOR, CONV				
C113	∆. 1-162-578-51 ∆. 1-162-578-51	CERAM1 C	0.0047MF 0.0047MF	20% 20%	400V	1	3-751-063-41 *4-392-859-01	BAG, PROTECTI	ION	~111		
C120 C121 C122	I-124-477-11 1-126-101-11 I-126-101-11	ELECT	47MF 100MF 100MF	20% 20% 20%	16V 16V 16V	!	*4-397-462-01 *4-397-463-01 *4-397-464-01	CUSHION (LOWE	ER) (ASS	SY)		
C123	1-124-477-11	ELECT	47MF	20%	16 V		74 571 404 01	TREET TEORIES OF				
C130 C131	1-124-902-00 1-126-101-11	ELECT ELECT	0.47MF 100MF	20% 20%	50V 16V							
C132 C133	1-126-101-11 1-124-477-11	BLECT	100MF 47MF	20% 20%	16V 16V							
C134	1-126-101-11	ELECT	100MF	20%	16 V	 						
	<010	DE>										
D100 D120	8-719-300-33 8-719-016-42	DIODE RU-3AM				1						
0130	8-719-016-42	DIODE MC932										
	<1C>	•										
IC10	8-759-982-25	IC RC78L09A				1						
	<res< td=""><td>SISTOR></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></res<>	SISTOR>										
R110 R111	1-249-377-11 ∆. 1-247-289-11	CARBON	0.47 5% 8.2M 5%	1/4W 1W	F							
R120 R121	1-249-404-00 1-249-401-11	CARBON CARBON	82 5% 47 5% 18 5%	1/4W 1/4W		i !						
R122	1-249-396-11		18 5%	1/4W								